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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/09971

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01J31/12, 29/06, 29/82, 29/87

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01J31/12-31/15, 29/06, 29/82, 29/87

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2001-176432 A (Pixtech S.A.), 29 June, 2001 (29.06.01), Par. Nos. [0037] to [0038]; Fig. 2 & EP 1096542 A1 & FR 2800512 A1 & FR 2800511 A1	1-3, 5-7, 9 4, 8
Y A	JP 2976118 B2 (Canon Inc.), 19 November, 1999 (19.11.99), Column 4, lines 37 to 41; column 7, lines 17 to 21; Figs. 1, 2 (Family: none)	1-3, 5-7, 9 4
Y	JP 10-83778 A (Motorola, Inc.), 31 March, 1998 (31.03.98), Full text; all drawings & EP 814491 A2 & US 5811927 A & TW 335499 A & KR 98005167 A	5, 6

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
17 December, 2002 (17.12.02)

Date of mailing of the international search report
14 January, 2003 (14.01.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/09971

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 7-326306 A (Canon Inc.), 12 December, 1995 (12.12.95), Full text; all drawings (Family: none)	5, 6
Y	JP 10-74471 A (Motorola, Inc.), 17 March, 1998 (17.03.98), Par. No. [0009]; Fig. 2 & EP 810626 A2 & US 5726529 A & KR 97076968 A & DE 69714144 A1	7
A	JP 61-31587 B2 (Matsushita Electric Industrial Co., Ltd.), 21 July, 1986 (21.07.86), Column 4, line 33 to column 5, line 21 (Family: none)	8

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